Ql.Write a program that grades students based on their marks.

* If greater than 90 then A Grade
* If between 70 and 90 then a B grade
* If between 50 and 70 then a C grade
* Below 50 then an F grade

Answer:

co nst ma rks = 71 ; let g ra de ;

if ( ma r ks >= 90 ) {

g r ade = ‘A g r ade ' ;

}else if ( ma r k s > = 70 && ma r k s < + 90 ) { g r ade = ' B g r ade ' ;

} else if ( ma r ks >= 50 && ma r ks < 70 ) { g r ade = ' C g r ade ' ;

}else {

g r ade = ' F g r ade ' ;

}

**fiit**

console . log ( ` Yo u r g r ade is :${g r ade}` )

Q2. Generate numbers between any 2 given numbers. Ex.

Const numl = 10; Const num2 = 25;

Output: 11,12,13,......,25

Answer:

# const numl = 10; const num2 = 25 ;

for (let i = num + 1 ; i <= num2; i++){ console.log( i);

}

Q3. Use a nested ternary operator to check that a numberis positive,negative or zero. You have to print "positive"i the number is positive andsimilarly for negative and zero also.

Answer:

const n u mbe r = 0 ; n u mbe r > 0

con sole . log ( " Positive" )

n um be r < 0

con sole . log ( " Negative" )

con sole . log ( " Ze ro" ) ;

Q4.Describe the usage of the comma operator in JavaScript and provide an example.

Answer:

Comma operator allows us to evaluate multiple expressions in a single statement like declaring multiple variablesin a single statement separating them with the comma operator.

con st a = 10 , b = 20 , c = 30 ; conso le . log ( a , b , c ) ;

Q5. You're creating a basic login system.Make a login function with two things: a username and a password.Check if the usernameis "admin" and the passwordis "12345". If they're both correct, show "Login successful";if not, show "Invalid credentials."

Answer:

let use rna me = " admin " ; let pa ssword = "12345" ;

if ( use rna me == = " admin " && pa sswor d === " 12345" ) { console . log ( " Log in Successf u l" ) ;

} else {

console . log ( " Inva lid c red entia ls" ) ;

}

fiit

Q6. You are working on an e-commerce platform. Write a JavaScript program that takes the payment method ("credit", "debit", or "paypal") as input and uses a switch statement to determine and print the processing fee associated with each payment method. For example, "credit" may have a processing fee of 2%, "debit" 1.5%, and "paypal" 3%.

Answer:

let pa ymentMethod = "cr ed it " ;

switch ( pa yrnen tMet hod ) { ca se "c r ed it " :

con sole . log ( " P rocessing f ee f or credit paym ent : 2%" ) ; b reak ;

ca se "debit " :

con sole . log ( " P rocessing f ee f or debit paymen t : 1 . 5%" ) ; b reak ;

ca se " pay pa l" :

console . log ( " P rocessing f ee f or PayPa l paym ent : 3%" ) ;

b reak ; def a u lt :

con sole . log ( " Inva lid paymen t method " ) ;

}

Q7. You are building a weather application. Write a JavaScript program that takes the current temperature as input and uses the conditional {ternary) operator to determine and print the weather condition. If the temperature is above 30°C, the condition is "Hot"; otherwise, it is "Moderate".

Answer:

let cu r ren t Tempe ra t u re = 28 ; let weat he r Con d it ion = cu r ren t Tem pe r a t u re > 30 ? "Hot " : " Moder a te " ;

con sole .log ( ' Cu r rent wea the r cond it ion : S{weathe rCondi tion} ' ) ;

QB.You are creating a program to calculate the sum of numbers. Write a JavaScript program that takes a positive integer as input and uses a do-while loop to calculate and print the sum of all numbers from 1to the given integer.

**Answer:** JavaScript

let ta r getN um be r = 8 ;

let sum = 0 ;

let cu r r ent N u m be r = 1 ;

d o {

sum + = cu r r ent N u m be r ; cu r ren t Num be r++ ;

} wh ile ( cu r r ent N umbe r < = t a r get N umbe r ) ;

console . log ( ' Sum of n umbe rs f rom 1 t o $ {ta r getN umbe r }: ${sum }' ) ;